BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at BHEL layout and surrounding areas in ward no. 03, Attur

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	BHEL layout								
	1st main, RHS		1	298.00	1.10	1.00	327.80		
	1st cross		2	85.00	1.10	0.95	177.65		
	2nd cross		2	120.00	1.10	0.90	237.60		
	7th cross		2	112.00	1.10	1.00	246.40		
	8th cross		2	70.00	1.10	0.95	146.30		
				Area					
	Rain Water Harvesting pits		5	0.31		1.80	2.79		
	Culvert		1	7.50	1.50	0.90	10.13		
							1148.67	220.40	**253165.77**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*10)+57	82.60							
	Total Rate Rs. =	**220.40**							
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	5	0.31		0.40	**0.62**	**1901**	**1,178.62**
	Data rate	1901.00							
	b) 20mm Jelly	Cum	5	0.31		0.40	**0.62**	**1901**	**1,178.62**
	Data rate	2651.00							
	c) Coarse sand.	Cum	5	0.31		0.30	**0.47**	**2651**	**1,232.72**
	Data rate	2651.00							
	d) Fine Sand	Cum	5	0.31		0.20	**0.31**	**2651**	**821.81**
	Data rate	1901.00							
	e) 12.5mm chips	Cum	5	0.31		0.30	**0.47**	**1901**	**883.97**
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia**. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Total	10822.32							
		Rmt							
	63m dia HDPE Perforated Pipe.		5	1.80			9.00		
							9.00	**10822.32**	**97,400.88**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	5	0.31			**1.55**	**71.03**	**110.10**
5	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	BHEL layout								
	1st main, RHS		1	298.00	1.10	0.15	49.17		
	1st cross		2	85.00	1.10	0.15	28.05		
	2nd cross		2	120.00	1.10	0.15	39.60		
	7th cross		2	112.00	1.10	0.15	36.96		
	8th cross		2	70.00	1.10	0.15	23.10		
	Culvert		1	7.50	1.50	0.15	1.69		
	For Kerb Stone								
	1st main, RHS		1	298.00	0.20	0.10	5.96		
	1st cross		2	85.00	0.20	0.10	3.40		
	2nd cross		2	120.00	0.20	0.10	4.80		
	7th cross		2	112.00	0.20	0.10	4.48		
	8th cross		2	70.00	0.20	0.10	2.80		
							200.01	5421.90	**1084420.66**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	BHEL layout								
	1st main, RHS		1	298.00	0.90	0.15	40.23		
	1st cross		2	85.00	0.90	0.15	22.95		
	2nd cross		2	120.00	0.90	0.15	32.40		
	7th cross		2	112.00	0.90	0.15	30.24		
	8th cross		2	70.00	0.90	0.15	18.90		
	side walls								
	BHEL layout								
	1st main, RHS		2	298.00	0.15	0.60	53.64		

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
				m	m	m			
	1st cross		4	85.00	0.15	0.60	30.60		
	2nd cross		4	120.00	0.15	0.60	43.20		
	7th cross		4	112.00	0.15	0.60	40.32		
	8th cross		4	70.00	0.15	0.60	25.20		
	Culvert raft		1	7.50	1.30	0.23	2.24		
	Culvert wall		2	7.50	0.23	0.60	2.07		
							341.99		
					Net Qty.		**341.99**	7070.20	**2417955.37**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
7	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		337.68	0.060	--	20.26		
	Considering steel For culvert @ 90 kg / cum	Tonne		4.31	0.090	--	0.39		
							20.65	73992.24	**1527860.21**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
8	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	BHEL layout								
	1st main, RHS		1	298.00	0.90	--	268.20		
	1st cross		2	85.00	0.90	--	153.00		
	2nd cross		2	120.00	0.90	--	216.00		
	7th cross		2	112.00	0.90	--	201.60		
	8th cross		2	70.00	0.90	--	126.00		
							964.80	2337.00	**2254737.60**
	Data Rate Rs. =	2337.00							
9	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	BHEL layout								
	Culvert		1	7.50	1.20	--	9.00		
							9.00	5418.00	**48762.00**
	Data Rate Rs. =	5418.00							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(I No-5.30,P No-27)								
		Nos							
	BHEL layout								
	1st main, RHS		1	298.00			298.00		
	1st cross		2	85.00			170.00		
	2nd cross		2	120.00			240.00		
	7th cross		2	112.00			224.00		
	8th cross		2	70.00			140.00		
							1072.00		
							2382.00	432.48	**1030167.36**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (I No-24.1,P No-180)								
		Sqm							
	BHEL layout								
	1st main, RHS		1	298.00		0.35	104.30		
	1st cross		2	85.00		0.35	59.50		
	2nd cross		2	120.00		0.35	84.00		
	7th cross		2	112.00		0.35	78.40		
	8th cross		2	70.00		0.35	49.00		
							375.20	84.80	**31816.96**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
								Sub Total 1 Rs.	**8751692.66**
	Add GST @ 12%								**1050203.12**
	PMC @ 1%								**98000.00**
								Sub Total 2 Rs.	**9899895.78**
	Miscellaneous & Rounding off								**104.22**
								Total Rs.	**9900000.00**

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 20-05-2020 and Data Rates
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Satellite Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 9900000.00 only is accorded under head P 2513 2019-20 Encouragement to Rural Sports & DY Mayors Grants

Technical Sanction Accorded For ... Head of A/C ... CER NO : 55 Dt: 05.08.2020

TA CE (YNK)

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

To Veersandra

M a store

FAT TO FIT
CELEBRITY...

Raushni P.V.T
Temporarily closed

BHEL LAYOUT

Jaladhare Park
Temporarily closed

To Yehlanka Rd

1st Cross
L-85.00m

1st Cross Rd

2nd Cross
L-120.00m

6th Cross Rd

7th Cross
L-112.00m

8th Cross
L-70.00m

8th Cross Rd

Parampara Public Schoo
Temporarily close

Meenglow B&B

L-298.00M
1st Main ,RHS

To Hesaraghatta Rd

Cross Bhel Layout

10th Cross Rd

INDEX

NEW RCC DRAIN

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BRUHAT BANGALORE MAHANAGARA PALIKE

AE

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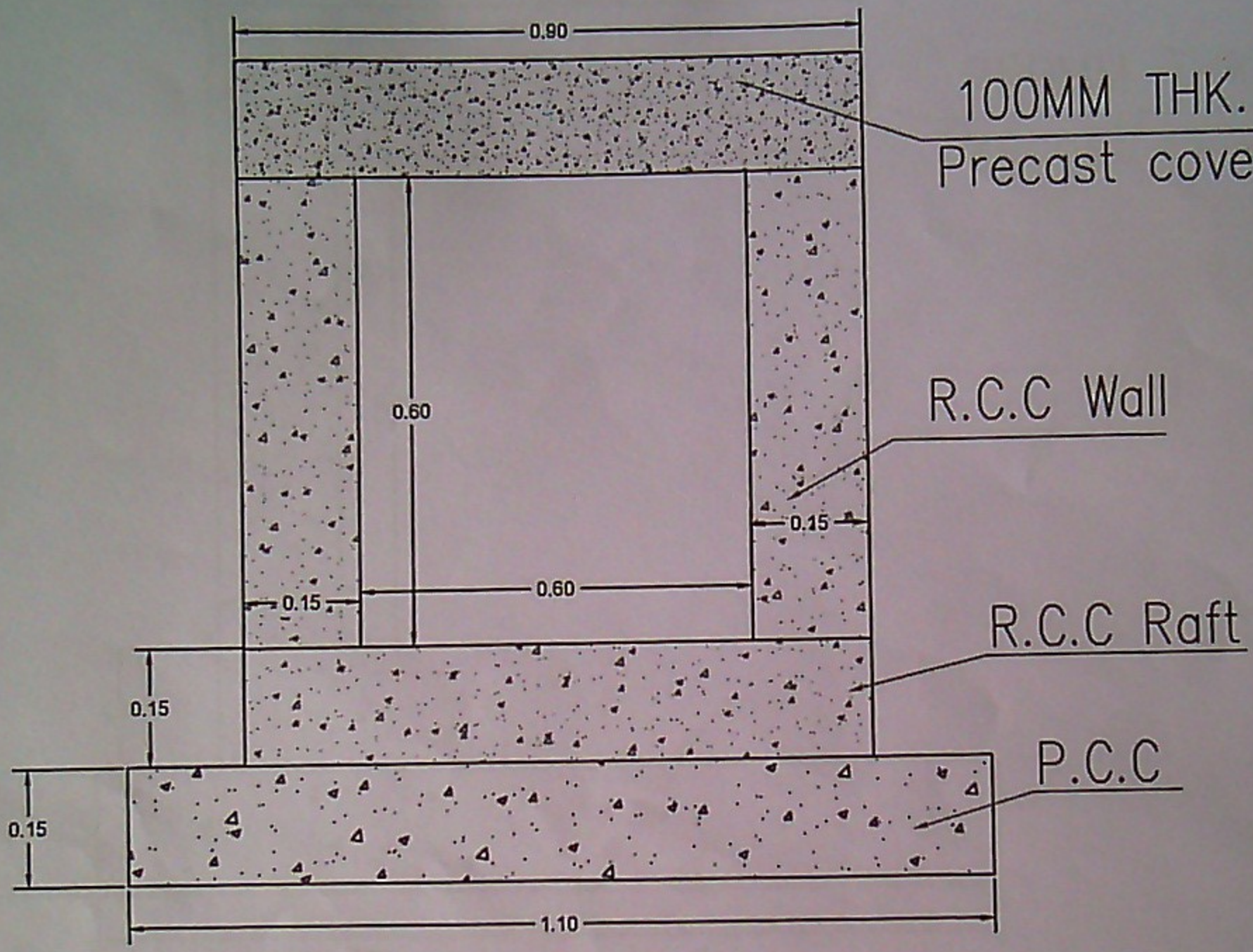
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Improvements To Roads and Drains at BHEL Layout and Surrounding area in ward No-03,Attur



TYPICAL CROSS SECTION OF DRAIN

AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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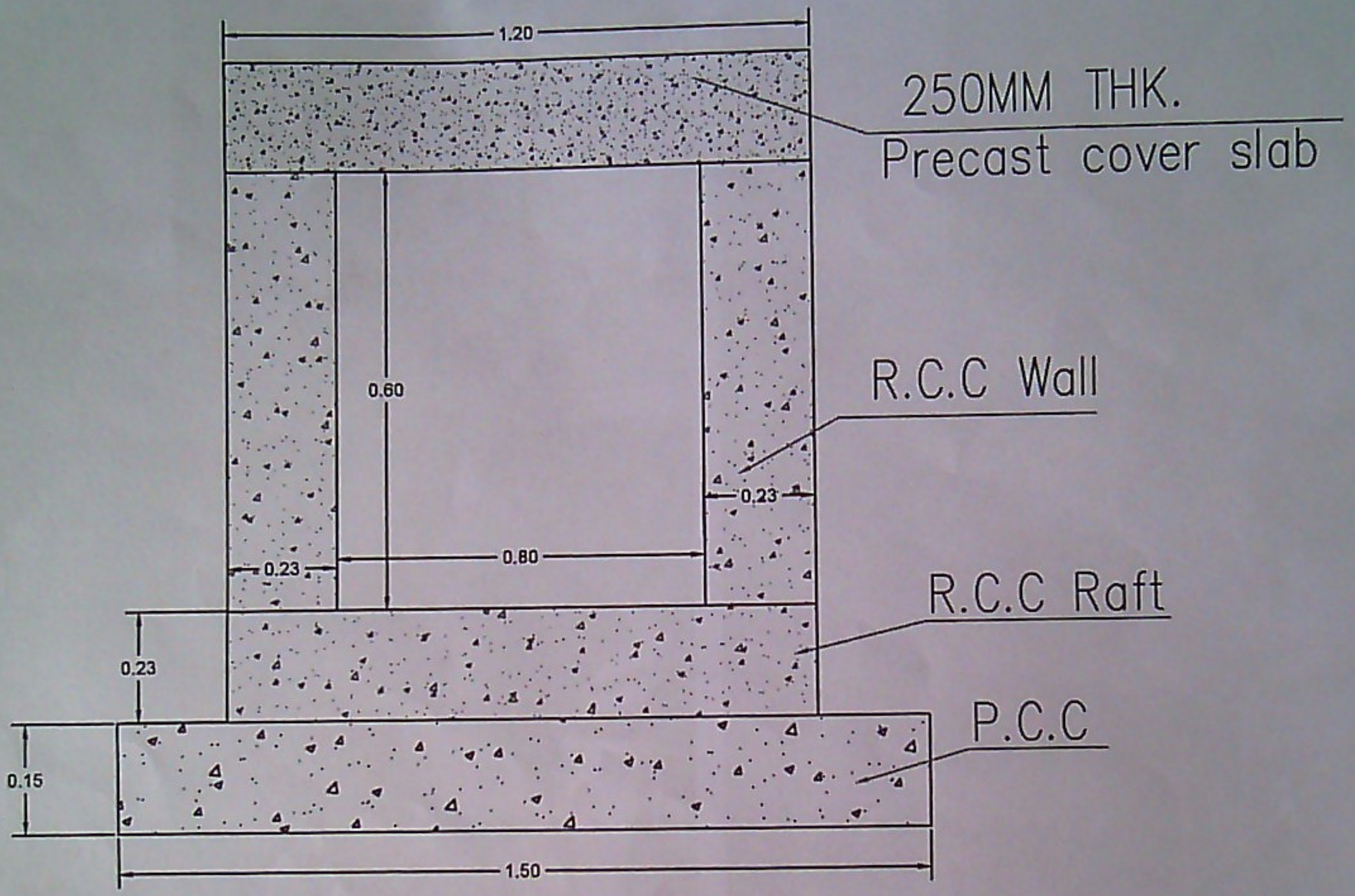

TYPICAL CROSS SECTION OF CULVERT

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